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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/554,717	10/28/2005	Masayuki Kumazawa	MAT-8771US	9478
23122 RATNERPRE	7590 07/09/2008 STIA		EXAM	INER
PO BOX 980 VALLEY FORGE, PA 19482-0980		RUTKOWSKI, JEFFREY M		
			ART UNIT	PAPER NUMBER
			2619	
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			07/09/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/554,717	KUMAZAWA ET	AL.
Examiner	Art Unit	
JEFFREY M. RUTKOWSKI	2619	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHOPTENED STATI ITODY REDIOD FOR DEDLY IS SET TO EXPIDE 2 MONTH(S) OR THIRTY (30) DAYS

WHIC - Exte after - If NC - Failu Any	CHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed. SIX (6) MONTHS from the mailing date of this communication of the communication of the provision of the maximum statutory period will apply and will expre SIX (6) MONTHS from the mailing date of this communication or to reply with one set or extended period for reply will by statute, cause the application to become ABANDONED (35 U.S.C. § 133). The property received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any edupant term durabument. See 37 CFR 1.704(b).
Status	
1)🛛	Responsive to communication(s) filed on 28 October 2005.
2a)□	This action is FINAL . 2b)⊠ This action is non-final.
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposit	ion of Claims
4)🛛	Claim(s) 1-22 is/are pending in the application.
	4a) Of the above claim(s) is/are withdrawn from consideration.
5)	Claim(s) is/are allowed.
6)⊠	Claim(s) <u>1-22</u> is/are rejected.
7)	Claim(s) is/are objected to.
8)□	Claim(s) are subject to restriction and/or election requirement.
Applicat	ion Papers
9)	The specification is objected to by the Examiner.
10)🛛	The drawing(s) filed on <u>28 October 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(o
11)	The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority (under 35 U.S.C. § 119
12)🖾	Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a)	☑ All b)☐ Some * c)☐ None of:
	1. Certified copies of the priority documents have been received.
	2 Certified copies of the priority documents have been received in Application No.

- Certified copies of the priority documents have been received in Application No.
- 3. Copies of the certified copies of the priority documents have been received in this National Stage
- application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

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1) 🔼	Notice of References Cited (PTO-892)
	Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) 🔀	Information Disclosure Statement(s) (PTO/G5/08)

Paper No(s)/Mail Date 10/28/2005.

4)	Interview Summary (PTO-413
	Paper No(s)/Mail Date

5) Notice of Informal Patert Application 6) Other:

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DETAILED ACTION

Priority

 Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- Claims 1-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. The step of periodically multicasting packets found in independent claims 1-2 and 8-9 is indefinite because it is not clear if the identifier included in the packet is an identifier that defines the packet type or is an identifier that identifies a particular node.
- Claim 13 is indefinite because it is unclear if all or only some of the conditions recited are required to be met.
- Claims 1 and 3-7 also lack antecedent basis for "the transferring step" found in the last limitation of claim 1.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
 obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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8. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.
- Claims 1 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 McLaggan et al. (US Pg Pub 2005/0025179), hereinafter referred to as McLaggan, in view of Li et al. (US Pat 5,473,599), hereinafter referred to as Li.
- 10. For claims 1 and 8, McLaggan discloses a method and apparatus for performing the distribution and balancing of traffic flows in a virtual gateway [title]. Each gateway device 212,216, which are routers [figure 1B], use traffic threshold information (conditions determined in advance) to determine whether or not received packets, received from hosts 222,224,226 (a node in the same segment) should be transmitted by the current selected gateway device to an outside network 150 (another segment) [0051-0052, figure 2]. A gateway device can redirect traffic in real-time via Hello messages [0054]. Address Resolution Protocol (ARP) replies are used as redirect messages to allow the optimum gateway to be used by hosts 222,224,226 for future packet transmissions [0055].
- 11. McLaggan discloses Hello messages are transmitted periodically after a data collector
 250 polling interval [0043]. The Hello messages used by McLaggan's invention appear to be unicast messages. Therefore, McLaggan does not disclose the use periodic multicast transmissions. Li discloses a virtual gateway protocol where Hello messages are transmitted via

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multicast addresses and includes, inter alia, source address information (an identifier) [col. 10

line 60 to col. 11 line 10]. It would have been obvious to a person of ordinary skill in the art to

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use multicast Hello messages instead of unicast Hello messages in McLaggan's invention to

conserve bandwidth by using a single message, instead of multiple unicast messages, to send

router information.

12. The combination of McLaggan and Li disclose multicast Hello packets are that are used

to distribute information regarding a particular router's traffic usage. The information included

in the Hello packets allows a router to select the best router to send the information [McLaggan,

0052].

13. For claims 3 and 10, McLaggan does not disclose the use of multicasting Hello packets.

Li discloses multicasting Hello packets that include the source address of the sender (identifier of

that router) [col. 10 line 60 to col. 11 line 10]. It would have been obvious to a person of

ordinary skill in the art to use multicast Hello messages instead of unicast Hello messages in

McLaggan's invention to conserve bandwidth by using a single message, instead of multiple

unicast messages, to send router information.

14. For claims 5 and 12, McLaggan does not disclose a router election scheme. Li discloses

a router election process (order for selection) where a standby router is elected when a router is

removed from the segment [col. 9 lines 18-25]. It would have been obvious to a person of

ordinary skill in the art at the time of the invention to use a standby router election scheme in

McLaggan's invention to provide fail-over mechanism at the gateway.

15. For claim 13, McLaggan discloses a condtion that includes percentage utilization of the

router on a per load basis (congestion state in the router) [0051-0052, table 2].

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Allowable Subject Matter

 Claims 2 and 9 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

17. Claims 4, 6-7 and 14-22 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEFFREY M. RUTKOWSKI whose telephone number is (571)270-1215. The examiner can normally be reached on Monday - Friday 7:30-5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on (571) 272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Jeffrey M Rutkowski Patent Examiner 06/30/2008

/Hassan Kizou/ Supervisory Patent Examiner, Art Unit 2619